

1. IDENTIFICATION OF PREPARATION & OF COMPANY

Product: Epoxy Hardener
Manufacturer: Chemco International Ltd
East Shawhead Industrial Estate
Coatbridge ML5 4XD
Scotland United Kingdom
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2. COMPOSITION INFORMATION ON INGREDIENTS

Epoxy cross-linking agent.

Chemicals	Classification	Risk phrases	CAS No	%
Benzyl alcohol	Xn	R20/22	100-51-6	23 - 49
Cycloaliphatic amine	C	R22, R34, R37, R43	001761-71-3	30 - 55

The remaining 30% of the composition is a blend of proprietary, non-hazardous chemicals that are trade secret.

3. HAZARDS IDENTIFICATION

Acute effects: Harmful by inhalation and if swallowed. Causes burns. Product vapour in low concentrations can cause lacrimation, conjunctivitis and corneal edema when absorbed into the tissue of the eye from the atmosphere. May cause skin sensitisation by skin contact. If absorbed through skin, may cause nausea, headache and general discomfort.

Long-term effects: Prolonged or repeated exposure may cause allergic reaction/sensitisation and may result in adverse respiratory/eye/skin effects.

4. FIRST AID MEASURES

Inhalation: Move to fresh air if effects occur. Seek medical attention.
Ingestion: Immediately give plenty of water (if possible charcoal slurry). Seek medical attention immediately. Do not induce vomiting. Fully trained personnel can use oxygen or artificial respiration if required.

Eyes: Rinse with flowing water immediately for at least 15 minutes. Seek medical attention.

Skin: Remove contaminated clothing. Flush with flowing water for at least 15 minutes. Wash affected area with soap and water. Seek medical attention if irritation persists.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Water spray, dry powder, foam, carbon dioxide.
Hazardous decomposition products: Burning produces obnoxious and toxic fumes. Carbon oxides.
Specific fire or explosion hazards: Do not release chemically contaminated water into drains, soil or surface water.
Special fire-fighting protection: Wear self-contained breathing apparatus and protective suit

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Do not breathe vapours/dust. Keep away from sources of ignition. No smoking. Avoid contact with skin, eyes and clothing.
Environmental precautions:	Avoid subsoil penetration. Prevent product from entering drains. Do not contaminate surface water.
Methods for cleaning up:	For large amounts, dike spilled product with liquid absorbing material and pump off. For smaller amounts, soak up with inert absorbent material such as sand and dispose of as hazardous waste.

7. HANDLING & STORAGE

Handling:	Provide sufficient air exchange and/or exhaust in work rooms. Ensure adequate ventilation. Handle and open container with care.
Storage:	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed and store at room temperature.
Storage hazard class:	Environmentally hazardous liquid.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Technical measures/controls:	Adequate ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.
Exposure controls:	None.
Respiratory protection:	Normally not required. Wear self-contained breathing apparatus when spraying.
Eye protection:	Chemical safety glasses, splash-proof eye goggles with a full-face shield. Contact lenses should not be worn.
Skin/body protection:	Protective suit, rubber or plastic gloves and safety shoes.
Hand protection:	Nitrile rubber gloves or butyl rubber gloves. Gauntlet type.
Protective measures:	Keep away from sources of ignition. No smoking. Avoid contact with skin, eyes and clothing.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid.
Colour:	Colourless.
Odour:	Ammoniacal.
pH:	Alkaline.
Boiling point:	200°C
Flash point:	110°C
Water solubility:	< 1.00%
Viscosity (CFS) @ 25°C:	600
Relative density @ 25°C:	1.03

10. STABILITY & REACTIVITY

Chemical stability:	Stable under normal storage conditions.
Materials to avoid:	Strong acids, bases and oxidising agents.
Conditions to avoid:	Take necessary action to avoid static electricity discharge.
Hazardous decomposition products:	Burning produces obnoxious and toxic fumes. Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:			
Oral LD50:	> 2,000mg/kg	(rat).	
Acute toxicity (irritation, sensitisation, etc):			
Eye:	Corrosive.	(rabbit).	
Skin:	Corrosive.	(dermal rabbit).	
Sensitisation:	Causes sensitisation.	(dermal guinea pig).	

12. ECOLOGICAL INFORMATION

Additional ecological information:	Avoid subsoil penetration. Do not let product enter drains. Do not contaminate surface water.
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13. DISPOSAL CONSIDERATIONS

Waste key number:	070208
Product:	Must be incinerated when in compliance with local regulations.
Contaminated packaging:	Can be re-used after cleaning when in compliance with the Environmental Protection (Duty of Care) Regulations 1991. Dispose of washing solution in the same way as product.

14. TRANSPORT INFORMATION

Proper shipping name:	Amines, liquid, corrosive, n.o.s. (Cycloaliphatic amine)		
Road/Rail			
ADR/RID Class:	8	ADR/RID Item No:	53c
Hazard No:	80	Trem Card No:	80G15
UN No:	UN 2735		
Sea			
Class:	8	IMO/IMDG Code:	8109-2
UN No:	UN 2735	Packing Group:	III
Air			
IATA/ICAO Class:	8	Packing Group:	III
UN No:	UN 2735		
Packing Instruction (Pass & Cargo):	818	Packing Instruction (Cargo):	820

15. REGULATORY INFORMATION

Chemical name:	Cycloaliphatic amine.
Labelling:	According to EEC directives relating to packaging and labelling of dangerous substances and UK Chemicals Hazard Information and Packaging for Supply (CHIPS) legislation.
Symbols:	(C) Corrosive. (Xn) Harmful.
Risk phrases:	R20/22, Harmful by inhalation and if swallowed. R34, Causes burns. R37, Irritating to the respiratory system. R43, May cause sensitisation by skin contact.
Safety phrases:	S26, In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39, Wear suitable protective clothing, gloves and eye/face protection. S45, In case of accident or if you feel unwell, seek medical advice immediately.

16. OTHER INFORMATION

The information contained in this data sheet is based on present state of knowledge and current national legislation (CHIPS). It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for the particular applications.